

CLAIMS

What is claimed is:

1. A method comprising:
receiving content from one or more content sources;
distributing metadata dictionary to a plurality of network nodes, wherein the
metadata dictionary comprises content descriptors;
receiving a plurality of subscription information from a plurality of corresponding
filtering network nodes of the plurality of network nodes, wherein the
plurality of subscription information is provided by a plurality of
corresponding users via a plurality of receiving network nodes of the
plurality of network nodes;
aggregating the plurality of subscription information;
generating an aggregated content stream based on the aggregated subscription
information, wherein the aggregated content stream comprises aggregated
content; and
distributing the aggregated content stream to the plurality of filtering network
nodes.
2. The method of claim 1, further comprising:
generating a plurality of user profiles comprising the plurality of subscription
information;
associating the content descriptors with the plurality of user profiles;

saving the user profiles;
generating a plurality of personalized content streams based on the plurality of
user profiles by dividing the aggregated content stream into the plurality
of personalized content streams; and
providing the plurality of personalized content streams to the plurality of
receiving network nodes.

3. The method of claim 2, wherein the generating the plurality of personalized content streams comprises filtering the aggregated content stream by comparing the aggregated content stream with the plurality of user profiles.
4. The method of claim 1, wherein the preparing the aggregated content stream based on the aggregated subscription information further comprises allocating bandwidth based on the aggregated subscription information to maximize the bandwidth.
5. The method of claim 1, further comprising providing the plurality of personalized content streams to the plurality of corresponding users.
6. A method comprising:
receiving a plurality of subscription information from a plurality of receiving
network nodes of a plurality of network nodes;
generating a plurality of user profiles comprising the plurality of subscription
information;
associating content descriptors with the plurality of user profiles;

saving the user profiles;
generating a plurality of personalized content streams based on the plurality of
user profiles by dividing an aggregated content stream into the plurality of
personalized content streams; and
providing the plurality of personalized content streams to the plurality of
receiving network nodes.

7. The method of claim 6, further comprising:
receiving the plurality of subscription information from the plurality of
corresponding users;
forwarding the plurality of subscription information upstream to a plurality of
filtering network nodes of the plurality of network nodes;
receiving the plurality of personalized content streams from the plurality of
filtering network nodes; and
providing the plurality of personalized content streams to the plurality of
corresponding users, wherein the plurality of personalized content streams
comprises content.

8. The method of claim 7, further comprising:
generating the plurality of user profiles based on the plurality of subscription
information;
saving the plurality of user profiles.

9. The method of claim 7, further comprising displaying the content.

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10. The method of claim 6, wherein the plurality of subscription information comprises a plurality of user preference data, wherein the plurality of user preference data comprises content preferred by the plurality of users.
11. The method of claim 6, wherein the subscription information comprises a plurality of content rating data, wherein the plurality of content rating data indicates interest-level of the plurality of the users relating to the content.
12. The method of claim 6, wherein the plurality of users comprises the following: a household and a community.
13. The method of claim 12, wherein the community comprises the plurality of users based on the following: demographics, geographic locations, and head-ends.
14. The method of claim 6, further comprising:
distributing a metadata dictionary comprising the content descriptors;
dynamically updating the metadata dictionary; and
storing the metadata dictionary.
15. The method of claim 6, further comprising:
receiving the content from a plurality of content sources, wherein the content sources comprise sources of web content, re-purposed web content, produced content, and external content; and
storing the content.
16. A content delivery system comprising:
a content distributor to distribute downstream an aggregated content stream to a

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plurality of filtering hubs of a network, wherein the aggregated content stream is based on an aggregation a plurality of subscription information received from the plurality of filtering hubs;

the plurality of filtering hubs to receive the plurality of subscription information from a plurality of receivers of the network, and filter the aggregated content stream to generate a plurality of personalized content streams based on a plurality of user profiles, wherein the plurality of user profiles is generated based on the plurality of subscription information, and provide the plurality of personalized content streams downstream to the plurality of receivers; and

a plurality of receivers to receive the subscription information from a plurality of users, and provide the subscription information upstream to the plurality of the filtering hubs, and provide the plurality of personalized content streams downstream to the plurality of users.

17. The content delivery system of claim 16, wherein the content distributor is further to distribute a metadata dictionary to a plurality of nodes of the network, wherein the metadata dictionary comprises metadata vocabulary.
18. The content delivery system of claim 16, wherein the content distributor is further to receive content from one or more content sources.
19. The content delivery system of claim 16, wherein the content distributor comprises broadcasting networks, local broadcasters, cable providers and

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operators, satellite service provider, and other content providers.

20. The content delivery system of claim 16, wherein the plurality of filtering hubs comprises head-ends, local broadcasters, local satellite stations, and filtering stations.
21. The content delivery system of claim 16, wherein the plurality of receivers comprises multimedia devices, wherein the multimedia devices comprise content providing sub-system and content receiving sub-system.
22. The content delivery system of claim 21, wherein the content providing sub-system comprises content display system.
23. The content delivery system of claim 16, wherein the plurality of filtering hubs and the plurality of receivers may be logically and/or physically integrated.
24. A machine-readable medium having stored thereon data representing sequences of instructions, the sequences of instructions which, when executed by a processor, cause the processor to:
 - receive content from one or more content sources;
 - distribute metadata dictionary to a plurality of network nodes, wherein the metadata dictionary comprises content descriptors;
 - receive a plurality of subscription information from a plurality of corresponding filtering network nodes of the plurality of network nodes, wherein the plurality of subscription information is provided by a plurality of corresponding users via a plurality of receiving network nodes of the

plurality of network nodes;

aggregate the plurality of subscription information;

generate an aggregated content stream based on the aggregated subscription

information, wherein the aggregated content stream comprises aggregated content; and

distribute the aggregated content stream to the plurality of filtering network nodes.

25. The machine-readable medium of claim 24, wherein the sequences of instructions which, when executed by a processor, further cause the processor to:

generate a plurality of user profiles comprising the plurality of subscription information;

associate the content descriptors with the plurality of user profiles;

save the user profiles;

generate a plurality of personalized content streams based on the plurality of user profiles by dividing the aggregated content stream into the plurality of personalized content streams; and

provide the plurality of personalized content streams to the plurality of receiving network nodes.

26. The machine-readable medium of claim 25, wherein to generate the plurality of personalized content streams further cause the processor to filter the aggregated content stream by comparing the aggregated content stream with the plurality of

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user profiles

27. A machine-readable medium of claim 24, wherein the sequences of instructions which, when executed by a processor, further cause the processor to provide the plurality of personalized content streams to the plurality of corresponding users.

28. A machine-readable medium having stored thereon data representing sequences of instructions, the sequences of instructions which, when executed by a processor, cause the processor to:

receive a plurality of subscription information from a plurality of receiving

network nodes of a plurality of network nodes;

generate a plurality of user profiles comprising the plurality of subscription information;

associate content descriptors with the plurality of user profiles;

save the user profiles;

generate a plurality of personalized content streams based on the plurality of user profiles by dividing an aggregated content stream into the plurality of personalized content streams; and

provide the plurality of personalized content streams to the plurality of receiving network nodes.

29. The machine-readable medium of claim 28, wherein the sequences of instructions which, when executed by a processor, further cause the processor to:
receive the plurality of subscription information from the plurality of

corresponding users;
forward the plurality of subscription information upstream to a plurality of
filtering network nodes of the plurality of network nodes;
receive the plurality of personalized content streams from the plurality of filtering
network nodes; and
provide the plurality of personalized content streams to the plurality of
corresponding users, wherein the plurality of personalized content streams
comprises content.

30. The machine-readable medium of claim 28, wherein the sequences of instructions
which, when executed by a processor, further cause the processor to:
generate the plurality of user profiles based on the plurality of subscription
information;
save the plurality of user profiles.